

Title (en)
TRANSPARENT LOW-COLOUR LITHIUM ALUMINIUM SILICATE GLASS CERAMIC AND THE USE THEREOF

Title (de)
TRANSPARENTE FARBARME LITHIUMALUMINIUMSILIKAT-GLASKERAMIK UND DEREN VERWENDUNG

Title (fr)
VITROCÉRAMIQUE TRANSPARENTE PEU COLORÉE À BASE DE SILICATE DE LITHIUM ET D'ALUMINIUM ET UTILISATION DE LADITE VITROCÉRAMIQUE

Publication
EP 2817269 B1 20190731 (DE)

Application
EP 13705196 A 20130221

Priority
• DE 102012202697 A 20120222
• EP 2013053485 W 20130221

Abstract (en)
[origin: WO2013124373A1] A transparent low-colour lithium aluminium silicate (LAS) glass ceramic and the use thereof are described, said glass ceramic having an environmentally friendly composition with high-quartz mixed crystals as the main crystal phase and advantageous production features. The glass ceramic contains the following components (in wt% on the basis of oxide): TiO₂ 1.6 - < 2.5; Nd₂O₃ 0.005 - 0.15; MgO 0.2 - 1.0; ZnO 1 - 2.5; CaO + SrO 0 - 1.5; BaO 0 - 1.5 with the condition B1: MgO + ZnO > CaO + SrO + BaO. The glass ceramic has a hue c* of less than 5.5, a light transmission Y greater than 81% and has no visually disruptive diffusion.

IPC 8 full level
C03C 10/00 (2006.01); **C03C 3/095** (2006.01)

CPC (source: EP US)
C03C 3/095 (2013.01 - EP US); **C03C 10/0009** (2013.01 - US); **C03C 10/0027** (2013.01 - EP US)

Cited by
CN110592664A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
DE 102012202697 A1 20130822; CN 104169232 A 20141126; CN 104169232 B 20170718; DK 2817269 T3 20191111;
EP 2817269 A1 20141231; EP 2817269 B1 20190731; EP 2817269 B9 20191211; JP 2015510487 A 20150409; JP 2018008876 A 20180118;
JP 6407725 B2 20181017; JP 6553129 B2 20190731; KR 102045587 B1 20191115; KR 20140138118 A 20141203; PL 2817269 T3 20200131;
US 2014357468 A1 20141204; US 9296645 B2 20160329; WO 2013124373 A1 20130829

DOCDB simple family (application)
DE 102012202697 A 20120222; CN 201380010662 A 20130221; DK 13705196 T 20130221; EP 13705196 A 20130221;
EP 2013053485 W 20130221; JP 2014558104 A 20130221; JP 2017132825 A 20170706; KR 20147021308 A 20130221;
PL 13705196 T 20130221; US 201414462710 A 20140819